

Outline



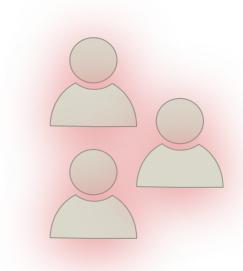
- 1) Problem Statement
- 2) Expected Output
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- 5) Preliminary Results
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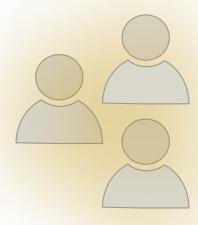
Problem Statement

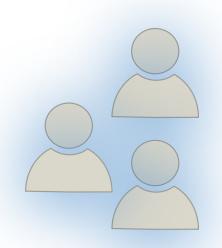


Employees find it difficult to achieve their personal objectives alone.

Text Similarity can match employees with similar goals.



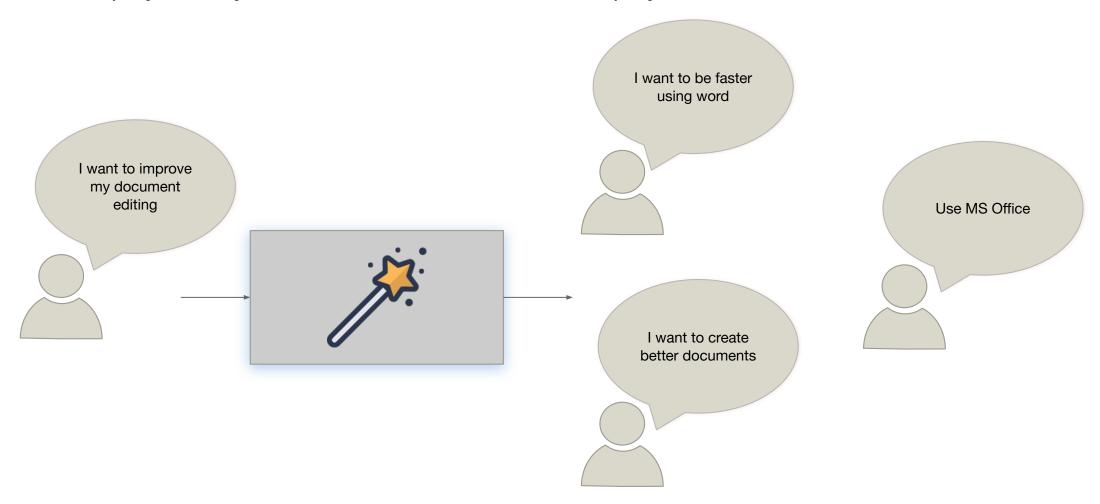




Expected Output



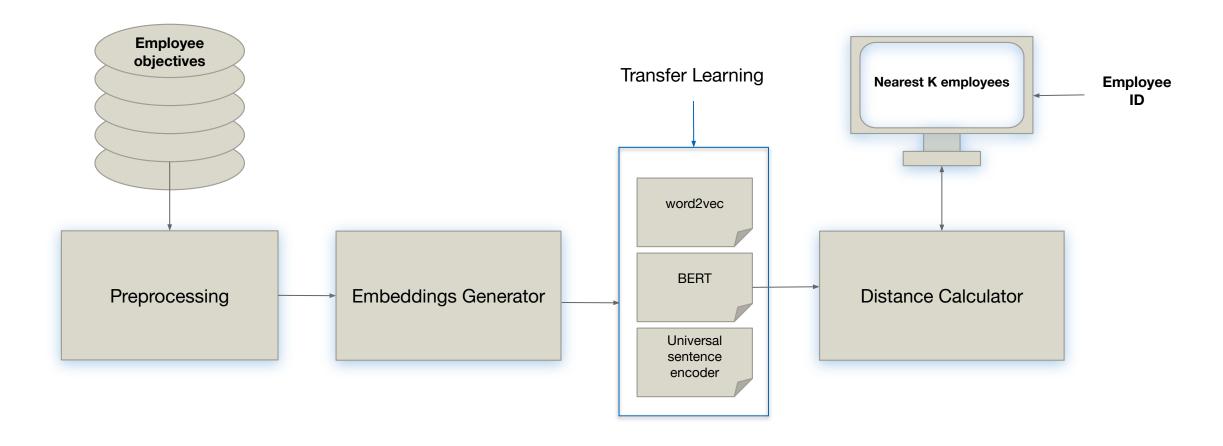
Given the employee's objective, find the most similar K employees.



Proposed Approach



A three-part pipeline, from raw data to front end user interface



Evaluating Results



1. The software is to be used and manually evaluated by the HR department of MERCK



Evaluating Results



2. Using open-source annotated text similarity corpus.

Sentence 1	Sentence 2	Score
the young boys are playing outdoors and the man is smiling nearby	the kids are playing outdoors near a man with a smile	4.7
two young women are sparring in a kickboxing fight	two women are sparring in a kickboxing match	4.9

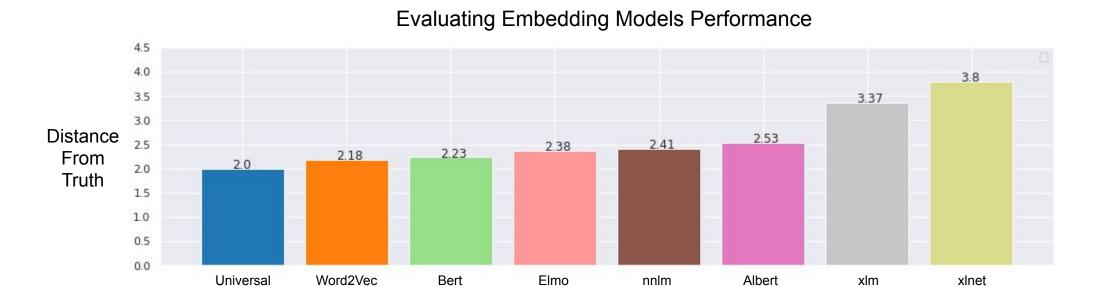
^{* 20}K annotated pairs.

^{*} https://github.com/PrincetonML/SIF/blob/master/data/sicktest



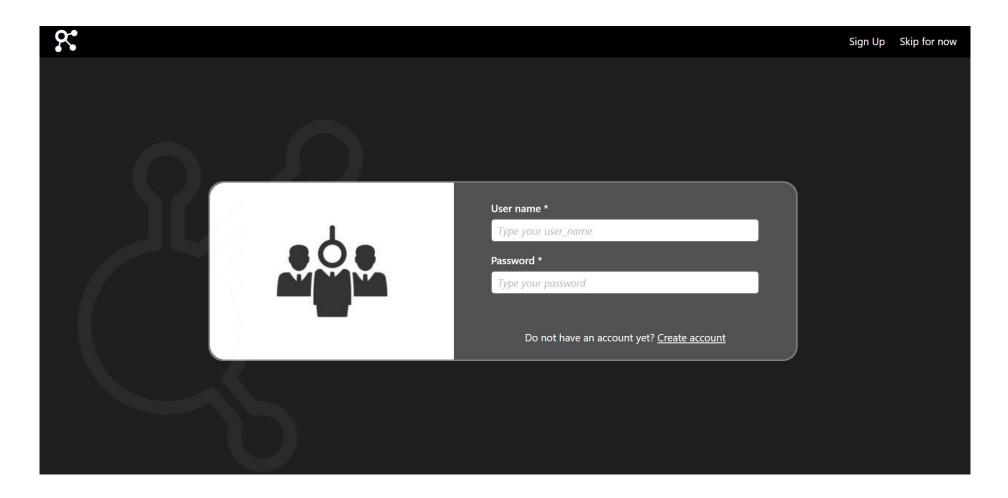
1. Analytical Results:

Sentence Encoder



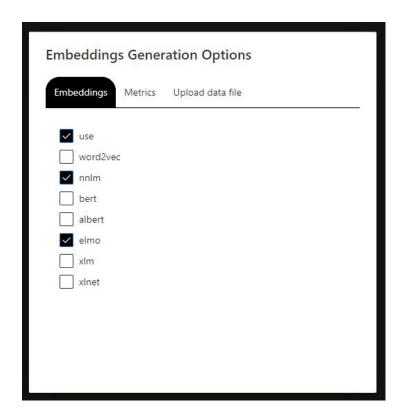


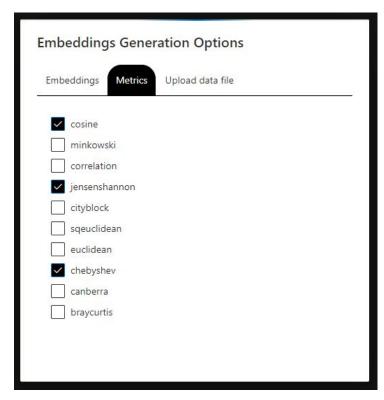
2. User Interface:

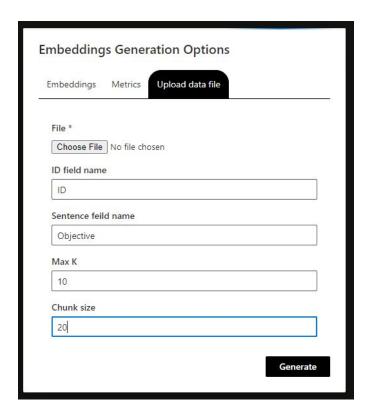




2. User Interface:

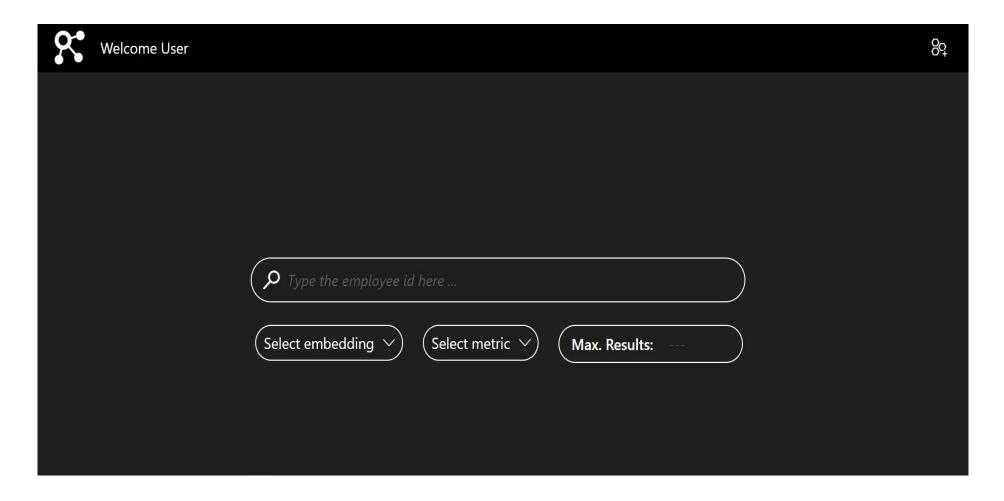






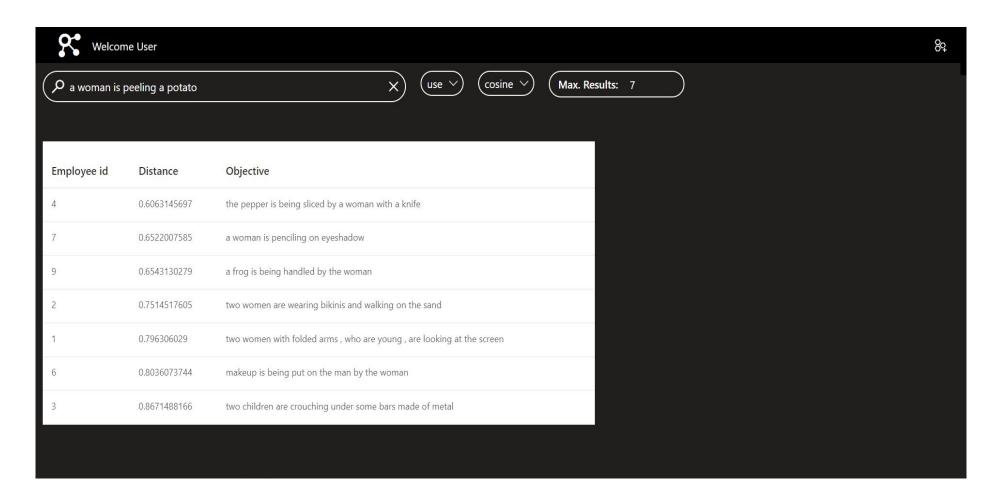


2. User Interface:



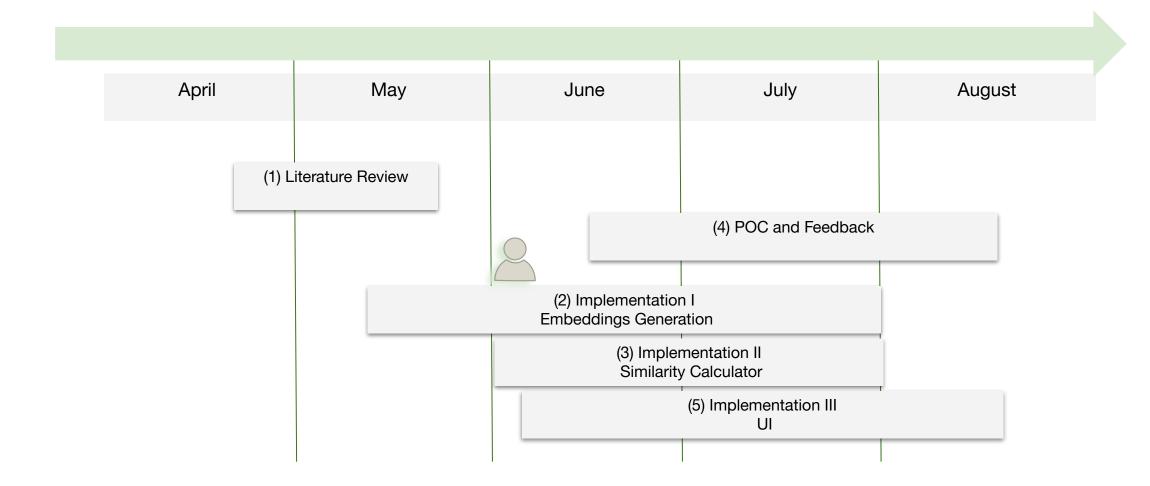


2. User Interface:



Timeline







Questions



Thank you!

